

**Table 1: SCF RBR Text Changes****CCR 98-0659 Rev A****Based on May 19, 1998 RTM Baseline**

req_by_rel	paragraph_id	object_id	release	text	clarification	req_interpretation	req_Category	segment_allocation	req_type	s_verification_method	s_verification_stat	a_verification_method	a_verification_stat	CCR
Cc	SCF-0001#B	8643	B1	The SCF interface platform shall adhere to requirements specified in the Data Production Software and SCF Standards and Guidelines, GSFC 423-16-01. This standards document includes SCF requirements for <del>operating system, computer communications, e-mail protocol, and windowing protocol.</del>		External requirement: Information only. No action is required by ECS.	N/A_procedure 1	N/A_procedural	procedural	not verified by ECS	N/A_procedural	not verified by ECS	N/A_procedural	97-0710A
Ct	SCF-0001#B			The SCF interface platform shall adhere to requirements										

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				specified in the Data Production Software and SCF Standards and Guidelines, GSFC 423-16-01. This standards document includes SCF requirements for <u>software</u> .										
Cc	SCF-0010#B	8646	B0	The SCF interface shall consist of an ESDIS approved computing platform that shall have a C compiler. To access FORTRAN routines in the <del>ECS</del> Toolkits, the platform shall also have a FORTRAN compiler.		External only requirement: Information only. No action is required by ECS.	N/A_procedural	N/A_procedural	procedural	not verified by ECS	N/A_procedural	not verified by ECS	N/A_procedural	97-0710A
Ct	SCF-0010#B			The SCF interface shall consist of an ESDIS approved computing platform that shall have a C compiler. To access										

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				FORTTRAN routines in the <u>SDP</u> Toolkits, the platform shall also have a FORTRAN compiler.										
Cc	SCF-0025#B	8653	B0	The SCF interface platform shall provide one of the following levels of security for interoperation with ECS: a. <del>Kerberized</del> authentication for bi-directional file transfers. b. User of Distributed Computing Environment (DCE) for authentication of users, authorization of users for access to services such as remote file access, and provision for integrity of data		External only requirement: Information only. No action is required by ECS.	N/A_procedural	N/A_procedural	procedural	not verified by ECS	N/A_procedural	not verified by ECS	N/A_procedural	97-0710A

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				being transferred.										
Ct	SCF-0025#B			<p>The SCF interface platform shall provide one of the following levels of security for interoperation with ECS:</p> <p>a. <u>Password-protected</u> authentication for bi-directional file transfers <u>and</u> <u>kerberized telnet (ktelnet) for SCF remote access to the DAAC system.</u> <u>Alternatively, secure shell may be used instead of ktelnet.</u></p> <p>b. User of Distributed Computing Environment (DCE) for authentication of users, authorization of users for access to</p>										

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				services such as remote file access, and provision for integrity of data being transferred.										
Cc	SCF-0060#B	8660	B0	The ECS shall have the capability to provide to the SCF the Toolkit Delivery and Update Package. This package includes the <del>PGS</del> toolkit which supplies tools for the emulation of the ECS production environment and contains a ECS-standardized software routines to aid in science data production software development.			mission essential	SDP S	interface	demo	un-verified	demo	un-verified	97-0710A
Ct	SCF-0060#B			The ECS shall have the capability to provide to the SCF the Toolkit										

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				Delivery and Update Package. This package includes the <u>SDP</u> toolkit which supplies tools for the emulation of the ECS production environment and contains ECS-standardized software routines to aid in science data production software development.										
Cc	SCF-0070#B	9304	B0	The ECS shall have the capability to provide Integration and Test Specifications to the scientist at the SCF. These specifications are defined by the Data Processing Focus Team. These		These specifications are actually requirements for the science software packages that SCFs provide to DAACs and the Data Processing Focus Team	mission essential	SDP S	interface	demo	un-verified	demo	un-verified	97-0710A

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				specifications are implemented in the <del>Data Production Software Delivery</del> Package and support smooth integration of the data production software into the ECS production environment.		is no longer in existence.								
Ct	SCF-0070#B			The ECS shall have the capability to provide Integration and Test Specifications to the scientist at the SCF. These specifications are defined by the Data Processing Focus Team. These specifications are implemented in the <u>Delivered Algorithm Package (DAP)</u> and support										

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				smooth integration of the data production software into the ECS production environment.										
Cc	SCF-0090#B	9832	B0	The SCF shall have the capability to provide ECS with the <del>Data Production Software Delivery</del> Package with "Required Items For Delivery" as specified by the Science User's Guide and Operations Procedure Handbook for the ECS Project.		This implies a requirement for ECS to receive Data Production Software Delivery Packages that SCFs send.	mission essential	SDP S	interface	test	un-verified	test	un-verified	97-1374C
Ct	SCF-0090#B			The SCF shall have the capability to provide ECS with the <u>Delivered Algorithm</u> Package ( <u>DAP</u> ) with "Required Items For										



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				Delivery" as specified by the Science User's Guide and Operations Procedure Handbook for the ECS Project.										
Cc	SCF-0120#B	9833	B0	The ECS shall have the capability to receive <del>Data Production Software</del> Updates from the SCF. <del>These Data Production Software</del> Updates include modifications to any data production software already submitted to the ECS by the SCF. The <del>Data Production Software</del> Updates may include some or all the items required in the	No change in Data Production software interface from B0 to B1		mission essential	SDP S	interface	test	un-verified	test	un-verified	97-1374C

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				<del>Data Production Software Delivery Package.</del>										
Ct	SCF-0120#B			The ECS shall have the capability to receive <u>Delivered Algorithm Package (DAP)</u> Updates from the SCF. <u>DAP</u> Updates include modifications to any data production software already submitted to the ECS by the SCF. The <u>DAP</u> Updates may include some or all the items required in the <u>DAP</u> .										
Cc	SCF-0130#B	9834	B0	The ECS shall have the capability to receive Special Products from the SCF. These shall include L1 - L4 Special Products.	ECS receives L1-L4 Special products from SCF -		mission essential	SDP S	interface	test	un-verified	test	un-verified	97-1374C

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					no change from B0 to B1; other related Special Product requirements SCF-0130-0170#B, and -0190#B were all allocated to B0 by IV&V									
Ct	SCF-0130#B		B1											
Cc	SCF-0140#B	9835	B0	The ECS shall have the capability to receive Metadata, related to Special Products, from the SCF.			mission essential	SDP S	interface	test	un-verified	test	un-verified	97-1374C
Ct	SCF-		B1											

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	0140#B													
Cc	SCF-0150#B	9836	B0	The ECS shall have the capability to receive Ancillary Data, related to Special Products, from the SCF.			mission essential	SDP S	interface	test	un-verified	test	un-verified	97-1374C
Ct	SCF-0150#B		B1											
Cc	SCF-0160#B	9837	B0	The ECS shall have the capability to receive Calibration Data, related to Special Products, from the SCF.			mission essential	SDP S	interface	test	un-verified	test	un-verified	97-1374C
Ct	SCF-0160#B		B1											
Cc	SCF-0170#B	9838	B0	The ECS shall have the capability to receive Correlative Data, related to Special Products, from the SCF.			mission essential	SDP S	interface	test	un-verified	test	un-verified	97-1374C
Ct	SCF-0170#B		B1											
Cc	SCF-0190#B	9840	B0	The ECS shall have the capability			mission essential	SDP S	interface	test	un-verified	test	un-verified	97-1374C

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				to receive Data Production Software, related to Special Products, from the SCF.			l						d	
Ct	SCF-0190#B		B1											
ADD	<u>SCF-0192#B</u>		<u>B1</u>	<u>The ECS shall have the capability to receive Browse Data, related to Special Products, from the SCF.</u>			<u>mission essential</u> l	<u>SDP S</u>	<u>inter face</u>	<u>test</u>	<u>un-verified</u>	<u>test</u>	<u>un-verified</u> d	
ADD	<u>SCF-0194#B</u>		<u>B1</u>	<u>The ECS shall have the capability to receive Guide Information related to Special Products, from the SCF.</u>			<u>mission essential</u> l	<u>SDP S</u>	<u>inter face</u>	<u>test</u>	<u>un-verified</u>	<u>test</u>	<u>un-verified</u> d	
Cc	SCF-0200#B	8692	B0	The ECS shall have the capability to receive from the SCF a QA Notification Specification. This specification, submitted by the scientist at the			mission essential l	SDP S	inter face	demo	un-verified	demo	un-verified d	97-0710A

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				SCF, describes the conditions under which data should be forwarded to the SCF for QA.										
Ct	SCF-0200#B			The ECS shall have the capability to receive from the SCF a <u>QA Data Subscription Request</u> . This request, submitted by the scientist at the SCF, describes the conditions under which data should be forwarded to the SCF for QA.										
Cc	SCF-0210#B	8695	B0	The ECS shall have the capability to send a <del>Data Quality Request</del> Notification to the SCF. This notification is sent when QA notification criteria are met during routine ECS	QA Data notification - always email	This notification is an action to be taken by ECS after the occurrence of a triggering event per a subscription that the SCF had	mission essential	SDP S	interface	demo	un-verified	demo	un-verified	97-0710A

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				processing. The notification states the data product and the time by which a notification, and optionally data, must be evaluated and returned to the ECS for inclusion as an update to the product metadata.		previously entered. SCFs no longer have a time limit by which they must complete their QA of science data, but the metadata will reflect the lack or presence of the QA.									
Ct	SCF-0210#B			The ECS shall have the capability to send a <u>QA Data Subscription Event Notification</u> to the SCF. This notification is sent when QA notification criteria are met during routine ECS processing. The notification states the data product											

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				and the time by which a notification, and optionally data, must be evaluated and returned to the ECS for inclusion as an update to the product metadata.										
Cc	SCF-0220#B	8700	B0B1	The ECS shall have the capability to receive from the SCF a Request for Data to QA. This request may be a standing request specified in the QA Notification Specification and may include the data product specified in the Data Quality Request Notification, or other data required by the scientist to QA the data product.		This is a request for data distribution whether the request is made as part of a subscription or as a data order.	mission essential	SDP S	interface	demo	un-verified	demo	un-verified	97-0710A



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Ct	SCF-0220#B			The ECS shall have the capability to receive from the SCF a Request for Data to QA. This request may be a standing request specified in the <u>QA Data Subscription Request</u> and may include the data product specified in the <u>QA Data Subscription Event Notification</u> , or other data required by the scientist to QA the data product.										
Cc	SCF-0240#B	8706	B1	The ECS shall have the capability to receive an On Time QA from the SCF. This shall consist of the science QA codes describing the results of product QA and	<del>On Time QA = Metadata updates = B.1</del>	On Time QA is reflected in ECS as Metadata Updates that are made to in response to data QA by the SCF. Also, no	mission essential	SDP S	interface	test	un-verified	test	un-verified	97-0818A

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				any further instructions to the ECS. The ECS shall accept the On Time QA when it is received within the time-out period specified in the Data Quality Request Notification. ECS shall accept post-time-out QA updates as Metadata Updates as specified by Requirement SCF-0250.		distinction is presently made between on-time QA and QA that is not on time.								
			B0B 1	The ECS shall have the capability to receive an On Time QA from the SCF. This <u>requirement is implemented</u> as Metadata Updates as specified by Requirement SCF-0250.	<remove>									
Cc	SCF-	8708	B1	The ECS shall	Metadata	On Time QA	mission	SDP	inter	test	un-	test	un-	97-

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	0250#B			have the capability to receive Metadata Updates from the SCF. These shall include the science QA codes and optionally a report describing the results of product QA and any further instructions to the ECS. The ECS shall only accept Metadata Updates when they are received after the time allotment specified in the Data Quality Request Notification.	a updates =B.1	is the same as Metadata Updates. Also, no distinction is presently made between on-time QA and QA that is not on-time. Metadata updates will be accepted whenever appropriate.	essentia l	S	face		verified		verifie d	0818A
Ct	SCF-0250#B		B0B 1	The ECS shall have the capability to receive Metadata Updates from the SCF. These shall include the science QA	<remov e>									

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				<u>flags.</u>										
Cc	SCF-0380#B	8720	B0	The SCF shall have the capability to send a Request for Product History (including the algorithms used) to the ECS for the history of data products that the SCF specifies.		ECS has an implied requirement to receive the status requests from SCFs. <del>Product history means production history.</del>	mission essential	SDP S	interface	demo	un-verified	demo	un-verified	97-0710A
Ct	SCF-0380#B			The SCF shall have the capability to send a Request for <u>Production</u> History (including the algorithms used) to the ECS for the history of data products that the SCF specifies.		ECS has an implied requirement to receive the status requests from SCFs.								
Cc	SCF-0390#B	8721	B0	The ECS shall have the capability to provide SCF with the Product History of data products that the SCF specifies.		<del>Product history means production history.</del>	mission essential	SDP S	interface	demo	un-verified	demo	un-verified	97-0710A

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Ct	SCF-0390#B			The ECS shall have the capability to provide SCF with the <u>Production</u> History of data products that the SCF specifies.		<remove>									
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